

CPP 程式設計題

命題者：LLA

題目名稱(中文/英文)：Is Sorted?

主要測試觀念： Basics, Function

Basics

Functions

- | | |
|--|--|
| <input checked="" type="checkbox"/> C++ BASICS | <input type="checkbox"/> SEPARATE COMPILATION AND NAMESPACES |
| <input checked="" type="checkbox"/> FLOW OF CONTROL | <input type="checkbox"/> STREAMS AND FILE I/O |
| <input checked="" type="checkbox"/> FUNCTION BASICS | <input type="checkbox"/> RECURSION |
| <input type="checkbox"/> PARAMETERS AND OVERLOADING | <input type="checkbox"/> INHERITANCE |
| <input type="checkbox"/> ARRAYS | <input type="checkbox"/> POLYMORPHISM AND VIRTUAL FUNCTIONS |
| <input type="checkbox"/> STRUCTURES AND CLASSES | <input type="checkbox"/> TEMPLATES |
| <input type="checkbox"/> CONSTRUCTORS AND OTHER TOOLS | <input type="checkbox"/> LINKED DATA STRUCTURES |
| <input type="checkbox"/> OPERATOR OVERLOADING, FRIENDS, AND REFERENCES | <input type="checkbox"/> EXCEPTION HANDLING |
| <input type="checkbox"/> STRINGS | <input type="checkbox"/> STANDARD TEMPLATE LIBRARY |
| <input type="checkbox"/> POINTERS AND DYNAMIC ARRAYS | <input type="checkbox"/> PATTERNS AND UML |

題目說明：

Xiao Ming went to the elementary school and his teacher taught him ascending order and descending order. The teacher gave (or assigned) Xiao Ming a homework to let him practice, but Xiao Ming is really stupid! Let's write a small program to help him which is ascending order or descending order!

輸入說明：

Have multiple tests and read to EOF.

First, input an integer N.

And then input N integers separated by spaces between them.

The integer range is -2147483648 to 2147483647.

輸出說明：

The first line outputs whether it is sorted (Yes / No)

If it is a sorted list, then output whether it is ascending order, descending order or all the same.

IO 範例：

Sample Input	Sample Output
3	Yes
1 2 3	Ascending order
3	No
3 1 2	Yes
3	All same
2 2 2	

附屬資料：

☒ 解答程式：

☒ 測試資料：

☒ 易，僅需用到基礎程式設計語法與結構

☐ 中，需用到多項程式設計語法與結構

☐ 難，需用到多項程式結構或較為複雜之資料型態或結構

解題時間：10 分鐘

其他註記：